Name of work:Asphalting and Improvements to cross roads at Medarahalli area, in Ward no. 12, in Shettyhalli Sub – Division. Detailed Estimate

NUMBER.: SI-7 Est. Amount = Rs 45.00 Lakhs

Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
Removing B.S.Slabs and stacking etc complete. (Page No. 25, I.No.5.32 of KPWD SR 2015-16)								
Ch:00-785 Consider Removing Resetting	Sqm	2	360.00	1.20		864.00		
					Total Qty	864.00	63.72	55054.08
2 KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.-141 I.No-19.1 of KPWD S.R 2015-16)								
For New Culvert	Cum	4	5.25	1.80	1.00	37.80		
Medarahalli Area								
Ch:00-785		2	360.00	0.80	0.5	288.00		
Ch:00-785 New Drain		2	150.00	0.80	0.9	216.00		
					Total Qty	541.80	178.85	96899.85
3 KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 (Page No. 12, It No. 4.2 of KPWD S.R 2015-16)								
For New Culvert	Cum	4	5.25	1.80	0.15	5.67		
Medarahalli Area								
Ch:00-785 New Drain		2	150.00	0.80	0.15	36.00		
					Total Qty	41.67	5236.92	218222.46
4 Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2015-16)								
Ch:00-785 New Drain	Sqm	2	150.00	1.20		360.00		
					Total Qty	360.00	663.12	238723.20
5 KSRB 5.2-2: Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2015-16)								
For New Culvert	Cum	8	5.25	0.60	0.60	15.12		
Cross Roads		8	5.25	0.45	0.40	7.56		
					Total Qty	22.68	4135.32	93789.06
6 KSRB 4-1.6 ; Providing and laying in position plain cement concrete cum of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and ciils, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No. 12, It No. 4.6 of KPWD S.R 2015-16)								
Copping For SSM	Cum							
Cross Roads		4	5.25	0.45	0.10	0.95		
					Total Qty	0.95	5490.72	5188.73
7 Refixing stone slabs of drains and pointing in C.M (1:3).(Page No.-25 I.No-5.33 of KPWD S.R 2015-16)								
Ch:00-785 Consider Removing Resetting	Sqm	2	360.00	1.20		864.00		
					Total Qty	864.00	78.84	68117.76
8 Providing and laying Pre Cast Drain Cover slabs of 250mm thickness including cost of all materials, labour, curing, transportation,loading, unloading etc.,complete as per the direction of Engineer - In- Charge. (Data Rate enclosed)								
For New Culvert								
Cross Roads	Sqm	4	5.25	1.50		31.50		
					Total Qty	31.50	5088.00	160272.00

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Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. (Page No,-142, I.No.-19.14 of KPWD S.R 2015-16).								
Medarahalli Area								
Ch:00-144	Cum	2	72.00	5.50	0.3	237.60		
Ch:144-260		1	116.00	5.30	0.3	184.44		
Ch:260-565 parallal to swd		1	305.00	5.00	0.3	457.50		
Ch:565-725 Cross Roads		2	40.00	4.30	0.3	103.20		
Ch:725-785		1	60.00	4.50	0.3	81.00		
					Total Qty	1063.74	144.29	153484.92
10 KSRRB M400-6.1. Construction of granular sub-base of Grading II Material by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method (Page No,-154, I.No.-20.4.2 of KPWD S.R 2015-16)								
Medarahalli Area								
Ch:00-144	Cum	2	72.00	5.50	0.12	95.04		
Ch:144-260		1	116.00	5.30	0.12	73.78		
Ch:260-565 parallal to swd		1	305.00	5.00	0.12	183.00		
Ch:565-725 Cross Roads		2	40.00	4.30	0.12	41.28		
Ch:725-785		1	60.00	4.50	0.12	32.40		
					Total Qty	425.50	1622.16	690222.59
11 KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / ChapterPage no -148.Item.No 19.64 of KPWD S.R 2015-16)								
Medarahalli Area								
Ch:00-144	Cum	2	72.00	5.50		792.00		
Ch:144-260		1	116.00	5.30		614.80		
Ch:260-565 parallal to swd		1	305.00	5.00		1525.00		
Ch:565-725 Cross Roads		2	40.00	4.30		344.00		
Ch:725-785		1	60.00	4.50		270.00		
					Total Qty	3545.80	4.86	17232.59
12 Providing, laying, spreading and compacting graded stone aggreate to wet mix mecadam specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achive the desired density complete as per specifications. (Page No,-157, I.No.-20.18 of KPWD S.R 2015-16).								
Medarahalli Area								
Ch:00-144	Cum	2	72.00	5.50	0.15	118.80		
Ch:144-260		1	116.00	5.30	0.15	92.22		
Ch:260-565 parallal to swd		1	305.00	5.00	0.15	228.75		
Ch:565-725 Cross Roads		2	40.00	4.30	0.15	51.60		
Ch:725-785		1	60.00	4.50	0.15	40.50		
					Total Qty	531.87	1713.96	911603.91
13 KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Page No,-160, I.No.-21.6 of KPWD S.R 2015-16).								
Medarahalli Area								
Ch:00-144	Sqm	2	72.00	5.50		792.00		
Ch:144-260		1	116.00	5.30		614.80		
Ch:260-565 parallal to swd		1	305.00	5.00		1525.00		
Ch:565-725 Cross Roads		2	40.00	4.30		344.00		
Ch:725-785		1	60.00	4.50		270.00		
					Total Qty	3545.80	32.40	114883.92

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	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	KSRRB 500-9. Providing and applying tack coat using 80/100 grade Sqm bitumen(VG10) on granular base such as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 (Page No,-160, I.No.-21.7 of KPWD S.R 2015-16)								
	Medarahalli Area	Sqm							
	Ch:00-144		2	72.00	5.50		792.00		
	Ch:144-260		1	116.00	5.30		614.80		
	Ch:260-565 parallal to swd		1	305.00	5.00		1525.00		
	Ch:565-725 Cross Roads		2	40.00	4.30		344.00		
	Ch:725-785		1	60.00	4.50		270.00		
						Total Qty	3545.80	15.12	53612.50
16	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509.(Page No-164 Item no - 21.22.6 of KPWD SR 2015-16)								
	Medarahalli Area	Cum							
	Ch:00-144		2	72.00	5.50	0.04	31.68		
	Ch:144-260		1	116.00	5.30	0.04	24.59		
	Ch:260-565 parallal to swd		1	305.00	5.00	0.04	61.00		
	Ch:565-725 Cross Roads		2	40.00	4.30	0.04	13.76		
	Ch:725-785		1	60.00	4.50	0.04	10.80		
						Total Qty	141.83	9901.17	1404302.74
17	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sq.m. area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC :35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (Page No,-181, I.No.-24.15 of KPWD S.R 2015-16).								
	Edge Lane	Sqm	2	785.00	0.15		235.50		
						Total Qty	235.50	473.04	111400.92
								Total Constrution cost	43,93,011.21
18								Design Report,Proof Checking & PMC Amount	1,09,825.28
19								Sub Total	45,02,836.49
20								Miscellaneous & Rounding Off	(2,836.49)
21								Grand Total	45,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2015-16.
4. The provisions made in the estimate are necessary and essential.

SRI SAI CONSULTANTS BANGALORE
Consultants
For Sri Sai Consultants

ಸಂ:CE/Oz/As/85/15-16 ದಿನಾಂಕ: 25.01.2016
ರೂ. 45,00,000 (ನಲವತ್ತೈದು ಲಕ್ಷ ರೂಪಾಯಿಗಳಿಗೆ)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವ.

P-52

Assistant Engineer
Ward No-12
BBMP - Bangalore

Assistant Executive Engineer
Shettyhalli-Sub division
BBMP - Bangalore

Executive Engineer
Dasrahalli
BBMP - Bangalore

Bruhat Bangalore Mahanagara Palike

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ಸಂ CE/DZ/TS/68/15-16 ದಿನಾಂಕ: 25.01.2016

ರೂ. ಗಿಪ್ಪತ್ತೈದು ಲಕ್ಷ ರೂಪಾಯಿಗಳು (ನಿಲುವಣಿಗೆ ಬಿದ್ದು ಲಕ್ಷ ರೂಪಾಯಿಗಳು)

ರವರ ಉದ್ದೇಶಕ್ಕೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

P.100

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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